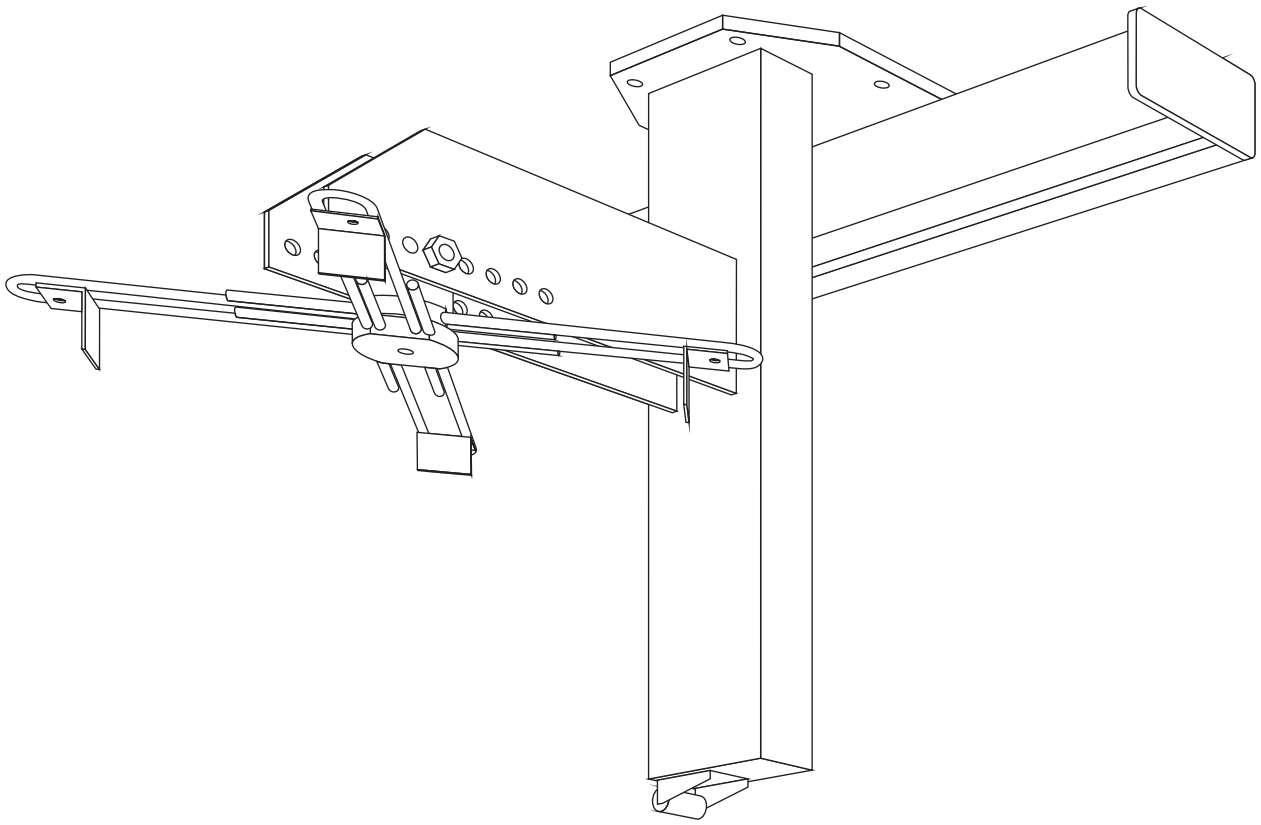
Electric projector lift

Avers Prolift



AVERS SCREENS

User's manual

CE

Read these instructions carefully before operating the screen.

Dear Customer,

Thank you very much for the purchase of our product. The manual booklet contains all operation information you may require to install properly and operate the lift. We hope it will help you to get the most performance and enjoyment of your new projector lift. Enjoy time with the **Avers Screens** product.

SAFETY INFORMATION

NOTICE: Important safety information.

Follow the instructions described in the operating manual for safety reasons. After reading the manual, please store it in a safe place just in case you need it in the future.

NOTICE: THE DEVICE HAVE TO BE EARTHED.

WARNING:
1) Disconnect the device from the power supply if it will not be used within longer period of time.
2) Do not open the casing of the device in order to avoid possible electric shock. There are not any user operated parts inside the case of the screen. All service work can be done by Avers Authorized Service Center personnel only.
3) Do not remove the Ground pin from the power outlet neither connect the device to the socket without the Ground pin. If you can't put the plug to the power outlet, please ask electrician for assistance.

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1. SAFETY RULES

SAFETY INFORMATION

NOTICE: Important safety information. It is important for the safety of persons to follow these instructions. After reading the manual, please save it just in case of need in the future

- Do not allow children to play with the fixed controls (remote control).
- Keep the remote control unit out of reach of children.
- Frequently examine the lift installation for imbalance and signs of wear or damage to cables. Do not use if repair or adjustment is necessary.
- Watch the moving lift and keep the people away until the lift is completely rolled in/out. It will help to avoid injuries caused with moving screen.
- Do not attach any objects to the lift's column. Lift damage and/or person injury danger.
- All installation work should be carried out by the qualified technician.
- Improper installation of the lift can cause device damage or health breakdown.
- Do not do anything that may damage the power cable or power plug.
- Do not damage the power cable. The following operations with the power cable are not allowed: making any modifications by your own, puting it near the hot objects, bending it strongly, twisting it, pulling it out, putting the heavy objects on it, wrapping it into the bundle.
- Operation of the lift with damaged power cord can result with electric shock, electric short circuit and fire.
- Do not touch the power cable, wall switch nor the power plug with wet hands.
- Always follow the instructions described in the operating manual.

1.1. Declaration of Conformity CE

AVERS SCREENS

Manufacturer's Declaration of ConformityCE

AVERS Screens Sp. z o.o.
Under it's own responsibility declares:

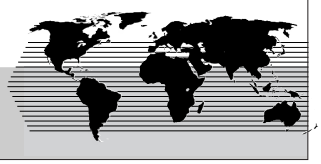
All screensand accessories mentioned below are manufactured in Polandaccording to the essential safety requirements of Council Directive 98/79/WE

Projection screens: Stratus, AkuStratus, Focus, Cumulus X, Solar, Solaris, Contour, Altus, Cirrus CL, Cirrus X, Cirrus X crank
Projector mount brackets: Alumount, Promount, SimpleMount, Prolift

The above mentioned products are in conformity with the European Directives and especially with the norms:

PN-EN 55014-1:2007(U)
PN-EN 50082-1:1997
PN-EN 60335-1:2004
PN-EN 61000-3-2:2007
PN-EN 61000-3-3:1997
IEC 60335-2-97:2007

CE

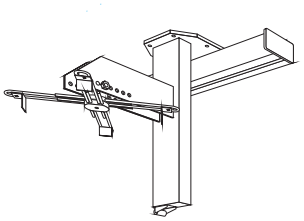
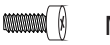
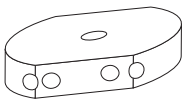
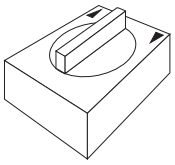


2. Product specification

Electrically operated projector lift designed for fixed installation at projection systems for business presentations and/or home cinema applications. Allows hidden projector installation in rooms with recessed false ceiling. Available in three versions with different operating ranges. Compatible with dedicated self closing masking ceiling flap model Avers Prolift Flap and remote control systems for comfortable operation.

2.1. Contents of packaging

Please check carefully if any physical damage of the screen has not happened during transportation. Please inspect the package for all accessories presented below:

<table>
<tr>
<td> 
Lift x 1</td>
<td> M4x40 x2
 M4x35 x2
Installation accessories</td>
<td>  M8x30 x1
  x 1
Installation accessories</td>
<td> M5x35 x2
 M5x40 x2
Installation accessories</td>
</tr>
<tr>
<td>
Regulation wrench x 1</td>
<td> 
Wall switch x 1</td>
<td></td>
<td>
Operation manual x 1</td>
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2.2 Technical Data

Dimensions of projector lifts.

Lift Model	Operating range [mm]	Total height (Lift in upper position) [mm]	Lift dimensions excl. projector bracket [mm]	Covered range of projector fixing wholes [mm]
Prolift 300	300	325	500 x 407	200 - 400
Prolift 400	400	425		
Prolift 500	500	525		

Projector weight: up to 15 kg
Engine
Electric tubular engine:
Voltage: 220-240V AC 50 Hz, 125 W
Power consumption: 0,52A
Rotation speed: 28 rot./min
Torque: 3 Nm
max. operation time*): 4 min

*)Engine single cycle operation time, operation cycle can be repeated in 20 minutes intervals.

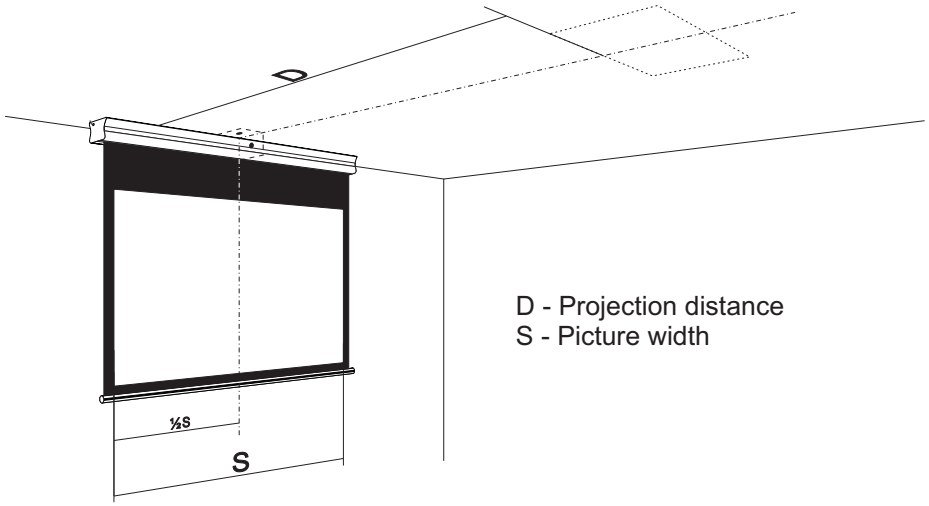
3. Lift installation

3.1. Installation precautions

- Installation work should be carried out by a qualified technician in accordance with the instructions described below.
- Fixed installation of the lift should be done with use of the screws and anchors suitable for the ceiling's construction materials at the installation place.
- Check carefully after lift installation and before first operation nor the lift elements, nor the installed projector will not collide with the recessed ceiling hole during lift operation.

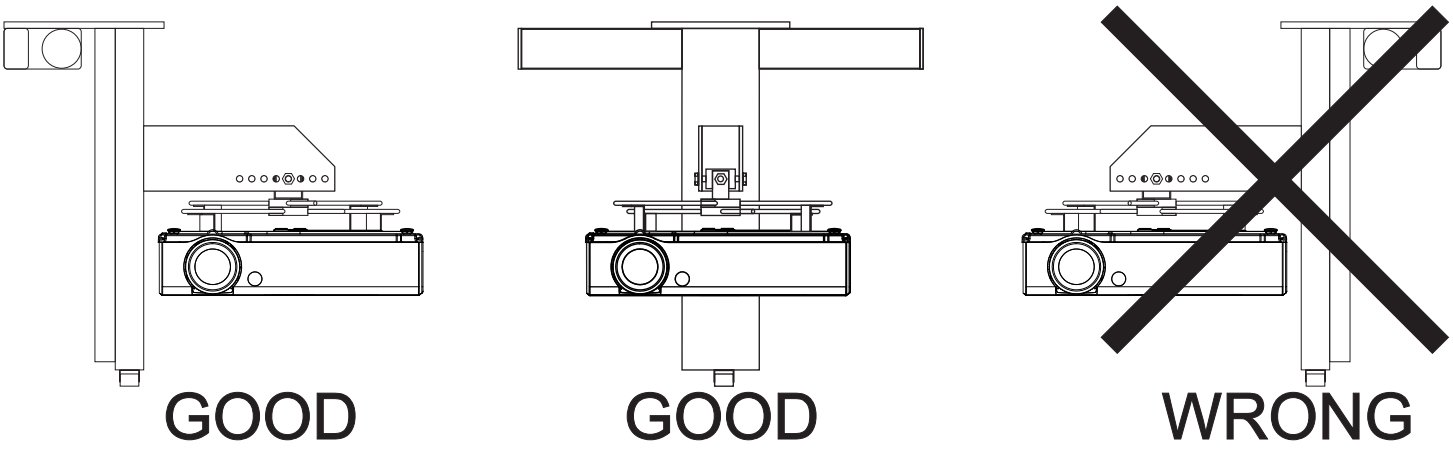
3.2 Lift installation at the ceiling

- Define location of the hole in the recessed ceiling. Projector installed at the lift will be ejected through during projection. Dimensions of the hole must follow the dimensions of the installed projector and/or the dimensions of the flap mechanism. Distance between the screen and the hole is determined by the planned projection distance (see picture 1).



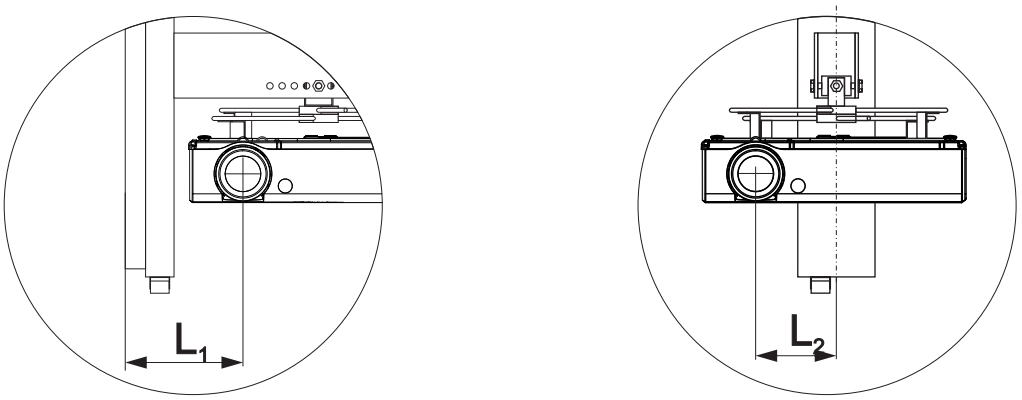
Pic.1 Mapping out location of the lift - phase 1

- Fix the projector to the lift's universal bracket (use screws supplied with the lift).
- Decide the point universal bracket will be fixed to the lift column arm (see picture 2)
- Measure distance between the lens optical axis and the lift column (see picture 3).



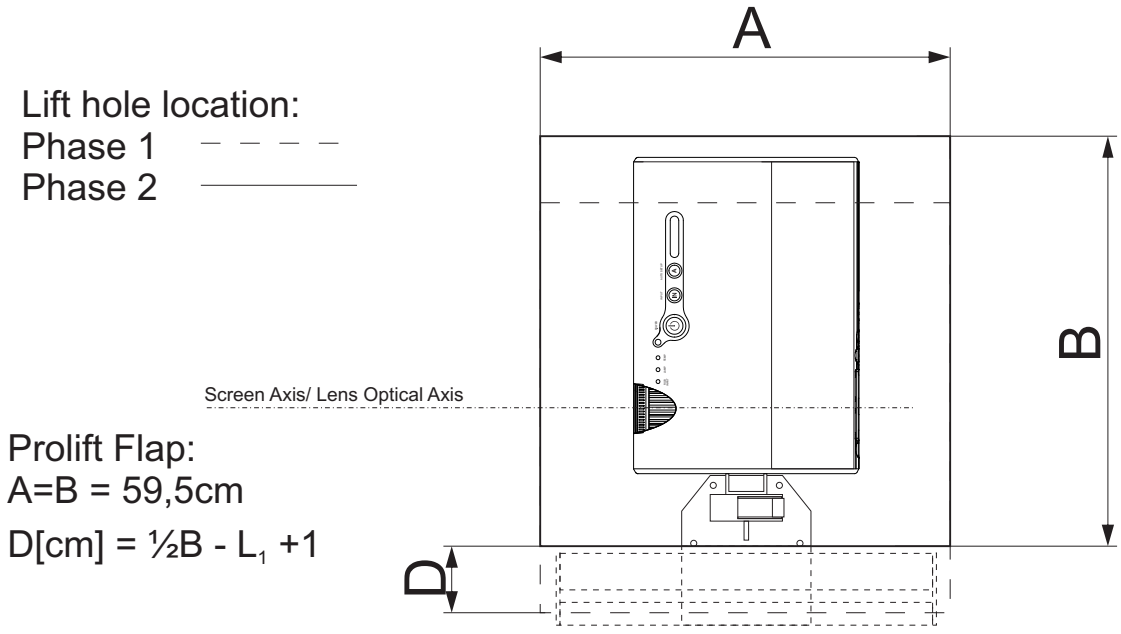
Pic.2 Recommended projector installationmethod

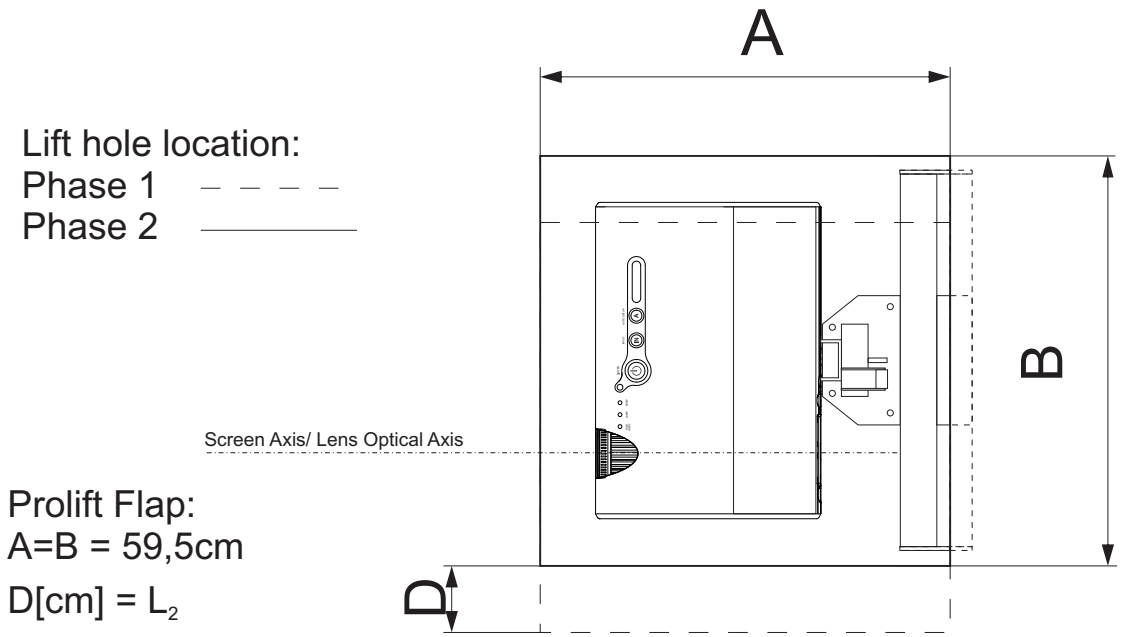
!!! CAUTION !!!
Projector should be installed at the lift arm, so the projector lens will be located as clos to the lift column as possible (most important in case of projectors with non-central lens design).



Pic.3 Lens optical axis to Lift column distance measure

- Determine final location of the lift hole at the false ceiling. Shifting of the hole position to the left or right side would be required depending on the design of installed projector. The lift hole localization at the false ceiling must provide, that the installed projector lense optical axis will be perpendicular to the screen surface and will cross the screen at the middle of screen width. (see picture 4)





Pic.4 Mapping out location of the lift - phase 1

- Cut off the hole in the false ceiling
- Appoint the location of holes for the anchors used to fix the lift mechanism to the real ceiling. Lift must be fixed at the right position. The optical axis of the projector installed at the lift must be perpendicular to the screen surface and must cross the screen in the middle of it's width. In case the optional Prolift Flap will be used during lift installation to mask the hole in the false ceiling, we recommend that the front side of the projector installed with the lift will move as close to the front edge of flap as possible.
- Fix the lift mechanism with the installation anchors.

!!! CAUTION !!! Diameter of the anchors used to fix the lift mechanism to the ceiling should be Ø 8 mm or more.

- Fix the projector universal installation bracket to the horizontal lift arm.
- Check and correct if needed levelling of the projector installed at the lift arm.
- Check and correct if needed if the roll installed at the bottom of the lift column is located at the same side as the Prolift flap hinges are located. The roll must be fixed at the position, so it will roll without any problems along the line perpendicular to the edge of the flap with the hinges.
- In case the optional Prolift Flap will not be used to mask the hole in the false ceiling, it is possible to fix part of the false ceiling to the bottom of the lift column. If so, the roll located at the bottom of the lift column must be deinstalled before. Total weight of the installed projector and part of the false ceiling fixed to the bottom of the column should not exeed 15kg.

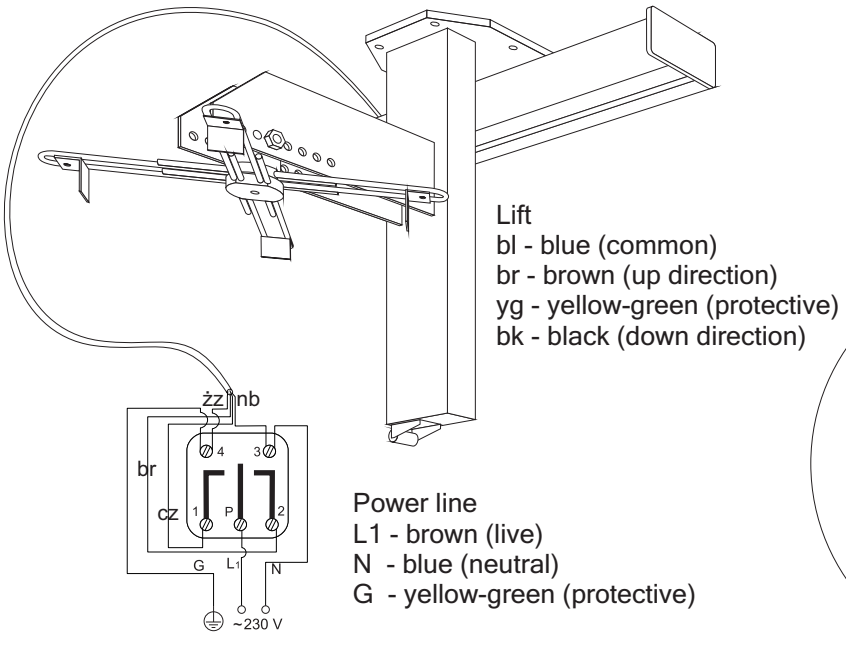
In case the false ceiling has segmented design with metallic profiles the potential locations of the lift installation place are determnied by the false ceiling construction. The lift must be installed over the single false ceiling tile located in front of the screen at the distance similar to the required projection distance. We recomend to install the optional Prolift Flap instead the false ceiling tile located below. The part of the false ceiling tile can be placed in the moving part of the flap so it will not differ with the other tiles of the false ceiling. Projection screen should be installed at the position determined by the lift installation place, to provide best possible picture quality.

!!! ATTENTION!!!
Space between the false ceiling and real ceiling must be kept clean and tidy to guarantee long term and reliable operation of the projector installed at the lift. Dust and remains of the construction work must be removed from there before the projector installation and operation.

3.4 Electric installation.

Caution: Electric installation of the lift should be performed by an authorized electrician.

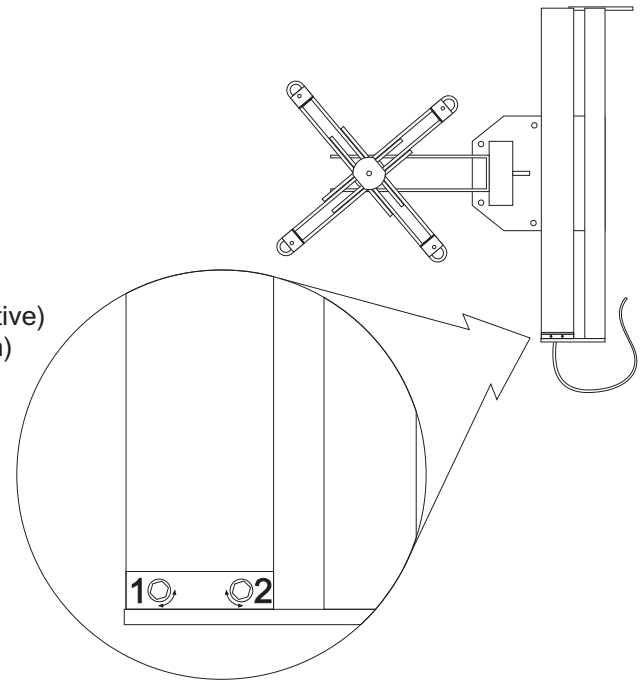
- Lead out the power cables to the place of installation of the wall switch and between wall switch and lift.
- Lift power line should be fused with 1A fuse.
- Switch off the lift power line during installation work



Lift
bl - blue (common)
br - brown (up direction)
yg - yellow-green (protective)
bk - black (down direction)

Power line
L1 - brown (live)
N - blue (neutral)
G - yellow-green (protective)

Picture 9 Lift electric installation



Picture10 Lift Programming

- Manual wall steering switch should be installed at the place meeting the following conditions:
  a) installation150-180 cm above the floor level,
  b) the lift should be visible by the wall switch operator during the lift operation,
  c) wall switch operator cannot stay in reach of any of the lift's moving parts during the lift operation .
  d) the wall switch must be visible from the each part of the room irrespective of the lift position.

3.5. Lift programming.

Avoid lift programming without important reason. The lift upper and bottom stop points were set at the factory to cover the maximum lift operating range. The lift must be re-programmed if you intend to lower the upper stop point or upgrade the bottom stop point.

Programming of the lift bottom stop position.
Programming knob „2" (red) allows programming of the lift bottom stop position:
„+" – turn the knob this direction to lower the lift bottom stop position (the lift is programmed at the factory at the lowest possible bottom stop position).
„-" - turn the knob this direction to move up lift's bottom position.

Programming of the lift upper stop position.
Programming knob "1" (white) allows programming of the lift bottom stop position:
"-" – turn the knob this direction to lower the lift upper stop position.
"+" – turn the knob this direction to move up lift's upper position (the lift is programmed at the factory at the highest possible upper stop position).

Avoid to overstress the lift steel rope during when programming the lift upper stop position, it could cause the lift damage.
Avoid to leave the lift steel rope slack after programming of the lift bottom stop position, if so the rope would tangle and the lift will be blocked.

4. Lift operation

Projector lift AVERS Prolift can be operated manually or automatically (if the additional Avers or 3-rd party control system will be installed).

4.1 Manual operation

Manual lift operation is possible with the wall control switch.
- Push button „▼", the lift will begin to move down and stop automatically at the bottom stop position.
- Push button „▲", the lift will begin to move up and stop automatically at the upper stop position.

4.2. Lift maintenence

Pojector lift Avers Prolift do not require periodical service maintenance. Clean dust from the lift with dry soft cloths. If needed use moisturized cloth with soft detergent to remove stains. After stain removal dry the cleaned surface with cloth carefully.

4.3. Before calling the service

Symptoms	Reasons	Remedy
The lift does not operate up/down	Power failure	Check the lift's circuit fuse and the power cable
The lift stops operation in the middle position.	The lift steel control rope is blocked.	Unlock the bocked rope. Check the proper lift programing.
	Power failure	Check the propriety of electric installation and the state of the power wires.

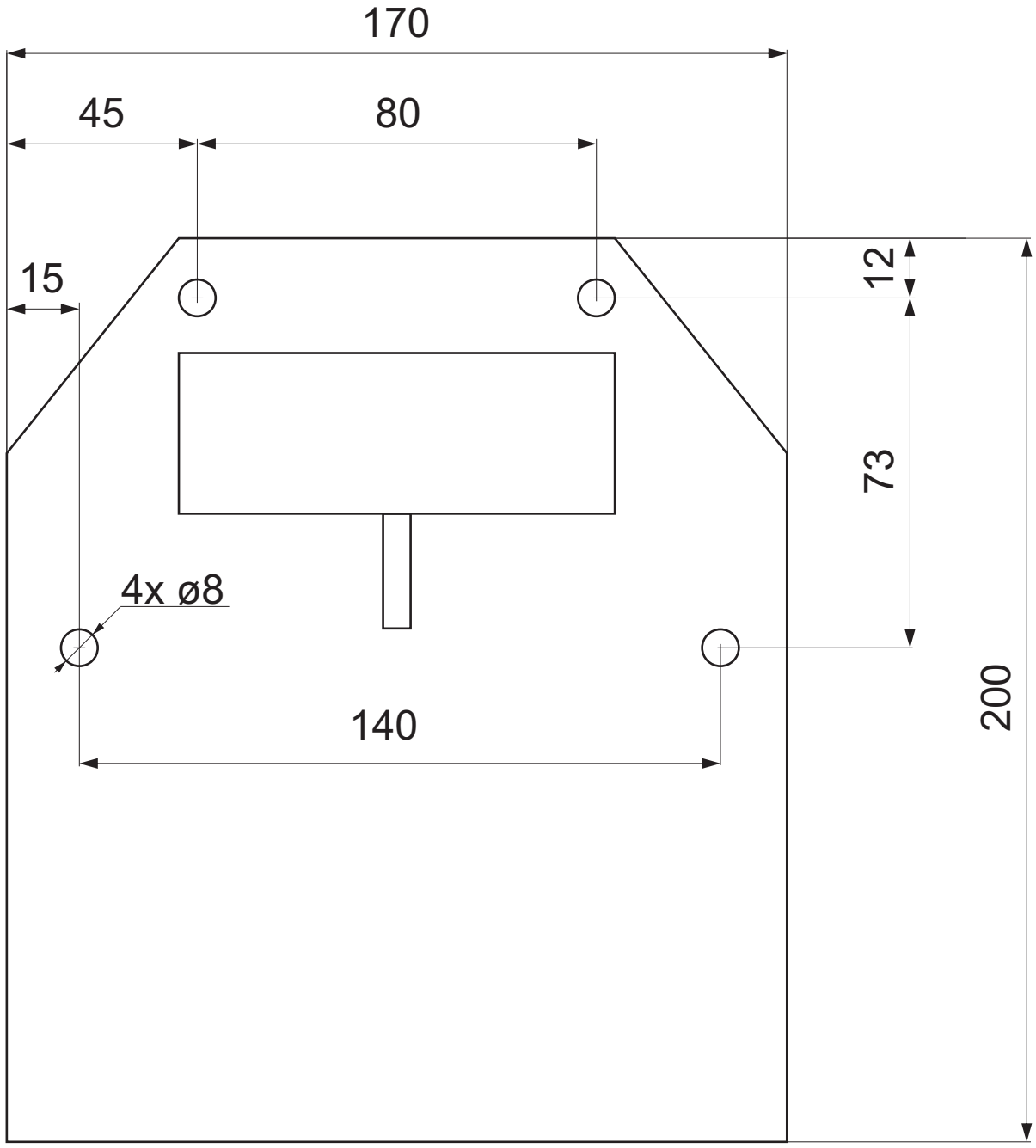
At other cases please contact service.

5. Warranty conditions

1) Avers Screens warranty period is 24 months from the date of purchase confirmed with the original purchase invoice.
2) Extended warranty period for electric engine is 60 months.
3) Surety commits to fix free of charge any failures (component or production defects) of the product which appear during warranty period.
4) Warranty exclusions :
   a) the failures caused by the usage of the lift against the rules described in operation manual,
   b) the failures caused by improper storage or transportation,
   c) mechanical defects of the lift other than mentioned at point 3),
   d) damages caused with overvoltage at power network,
   e) deinstallation and reinstallation of the lift.
5) Avers Screens Service department will remove all defects within 21 days after receiving the demaged product.
6) Warranty claims should be passed to the lift supplier (dealer).

Appendix

Prolift mechanism installation plate. Dimensions and location of installation holes.
All dimensions are in metric standard.



Manufactured after 13.08.2005
This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. Disposing of this product correctly will help to save valuable resources and prevent any potentialnegative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.